Non-parametric models

Idea: we don't need a model, just the dataset is enough to pravide the solution. These things are called mon-parametric models.

Before

- Dyou have a target function $f: X \longrightarrow Y$ and a dataset $D = \{(x_n, t_m)_{m=1}^{\infty} \}$
- Dyou create some Kind of model f(x;0) parametrized with a set of parameters 0;
- 3 you use the dataset to find the lest value for this set of parameters (e.g. with maximum likelihood) 9*
- you can predict values outside of the dataset x'
 x
 \(\times \) with \(\frac{1}{2} \) (x', 0*).

After

- ① you have a target function $f: X \longrightarrow Y$ and a dataset $D = \{(x_n, t_n)_{n=1}^N \}$
- 2 you try to directly guess the value of the target function without an explicit definition of a model
 3 D = {(xm, tm)} = 1

x & D - Algorithm - y'

The output is computed directly from the dataset and the imput without defining a model, a set of parameters and finding their optimal value.